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Sungmin Park;
Semiconductor Manufacturing, IEEE Transactions on
Volume 17, Issue 3, Aug. 2004 Page(s):362 - 374
Digital Object Identifier 10.1109/TSM.2004.831526
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2. **Factor interaction on service delivery in mobile ad hoc networks**
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Digital Object Identifier 10.1109/JSAC.2004.829351
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Siong Lin Ho; Wan Lyn Nge; Kian Hong Chua;
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Volume 3, 18-21 Oct. 2004 Page(s):1056 - 1060 Vol.3
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5. **Resist process characterization and optimization for ArF lithography**
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Sredni, J.;
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Hu, S.J.; Lim, G.E.; Lim, T.L.; Foong, K.P.;
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Parikh, M.R.; Quilty, W.F., Jr.; Gardiner, K.M.;
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Fuller, L.F.; Hesler, K.H.; Kurinec, S.K.; Lane, R.L.; Pearson, R.E.; Smith, B.W
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1 Evolutionary strategies and evolutionary programming: Using gene deletion and gene duplication in evolution strategies
Karlheinz Schmitt
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
Full text available: pdf(122.35 KB) Additional Information: full citation, abstract, index terms

Self-adaptation of the mutation strengths is a powerful mechanism in evolution strategies (ES), but it can fail. As a consequence premature convergence or ending up in a local optimum in multi-modal fitness landscapes can occur. In this article a new approach controlling the process of self-adaptation is proposed. This approach combines the old ideas of gene deletion and gene duplication with the self-adaptation mechanism of the ES. Gene deletion and gene duplication is used to vary the number o ...

Keywords: evolution strategy, gene duplication, self-adaptation

2 New approaches to physical design problems: Microarchitecture-aware floorplanning using a statistical design of experiments approach
Vidyasagar Nookala, Ying Chen, David J. Lilja, Sachin S. Sapatnekar
June 2005 **Proceedings of the 42nd annual conference on Design automation**
Full text available: pdf(596.00 KB) Additional Information: full citation, abstract, references, index terms

Since across-chip interconnect delays can exceed a clock cycle in nanometer technologies, it has become essential in high performance designs to add flip-flops on wires with multi-cycle delays. Although such a wire pipelining strategy allows higher operating frequencies, it can reduce the delivered performance of a microarchitecture, since the extra flip-flops inserted may increase the operation latencies and stall cycles. Moreover, the addition of latencies on some wires can have a large impact ...

Keywords: floorplanning, microarchitecture, wire pipelining

3 Birds of a feather: The national infrastructure for community statistics
Andrew Reamer, Marshall DeBeny
May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**
Full text available: Additional Information:

pdf(34.57 KB) full citation, abstract, index terms

This Birds of a Feather session will provide an overview of the National Infrastructure for Community Statistics (NICS) initiative.

Keywords: FedStats, NICS, community, statistics

4 Analysis methodology: Queueing network simulation analysis: developing efficient simulation methodology for complex queueing networks

Ying-Chao Hung, George Michailidis, Derek R. Bingham

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: pdf(490.13 KB) Additional Information: full citation, abstract, references

Simulation can provide insight to the behavior of a complex queueing system by identifying the response surface of several performance measures such as delays and backlogs. However, simulations of large systems are expensive both in terms of CPU time and use of available resources (e.g. processors). Thus, it is of paramount importance to carefully select the inputs of simulation in order to adequately capture the underlying response surface of interest and at the same time minimize the requir ...

5 Research track: Applications of sampling and fractional factorial designs to model-free data squashing

William DuMouchel, Deepak K. Agarwal

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(196.35 KB) Additional Information: full citation, abstract, references, index terms

The concept of "data squashing" was introduced by DuMouchel et al [4] as a method of summarizing massive data sets that preserves statistical relationships among variables. The idea is to create a smaller data set that allows statistical modeling to take place using in-memory algorithms, and to preserve the modeling results more accurately than would a same-size random sample from the massive data set. This research attempts to avoid several limitations of previous approaches to data squashing. ...

Keywords: data squashing, fractional factorial design, stratified sampling, summary of massive datasets

6 Workshop overviews: Report on the ICSE 2003 doctoral symposium

Dick Hamlet, Mary Lou Sofia

May 2003 **Proceedings of the 25th International Conference on Software Engineering**

Full text available: pdf(467.22 KB) Publisher Site Additional Information: full citation, index terms

7 Advanced tutorials: Exploring the world of agent-based simulations: simple models, complex analyses: exploring the world of agent-based simulations: simple models, complex analyses

Susan M. Sanchez, Thomas W. Lucas

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: pdf(595.23 KB) Additional Information: full citation, abstract, references, citings

Agent-based simulations are models where multiple entities sense and stochastically respond to conditions in their local environments, mimicking complex large-scale system behavior. We provide an overview of some important issues in the modeling and analysis of agent-based systems. Examples are drawn from a range of fields: biological modeling, sociological modeling, and industrial applications, though we focus on recent results for a variety of military applications. Based on our experiences ...

8 Military applications: Logistics 2: using simulation to understand Interim Brigade Combat Team (IBCT) munitions logistics

Todd S. Bertulis, J. O. Miller

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: pdf(246.49 KB) Additional Information: full citation, abstract, references

Today, military leaders have limited options when reacting to the wide range of current threats existing in our world. These threats demand forces able to deploy rapidly while possessing combat capabilities to stabilize a hostile area quickly. The Army's answer to this requirement is the Interim Brigade Combat Team (IBCT).

Logistically supporting the IBCT will require the Army to develop support organizations that exploit available technologies to automate support activities, enhance s ...

9 Implant Dose Sensitivity of 0.1μm CMOS Inverter Delay

H. C. Srinivasaiah, Navakanta Bhat

January 2002 **Proceedings of the 2002 conference on Asia South Pacific design automation/VLSI Design**

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract
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The simulation experiment is performed to characterize the impact of process level fluctuations on the circuit performance variation for the 0.1μm CMOS technology. The 0.1μm NMOS and PMOS transistors are optimized using four different ion implantation steps namely super steep retrograde channel (SSRC)implant,deep s/d implant,shallow s/d extension implant and halo implant.We demonstrate that the fluctuations in the nominal values of these implant doses result in the significant variation in DC (I ...

10 Semiconductor manufacturing: Understanding the impact of equipment and process changes with a heterogeneous semiconductor manufacturing simulation environment

Jeffrey W. Herrmann, Brian F. Conaghan, Laurent Henn-Lecordier, Praveen Mellacheruvu, Manh-Quan Nguyen, Gary W. Rubloff, Rock Z. Shi

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references

Simulation models are useful to predict and understand the impact of changes to a manufacturing system. Typical factory simulation models include the parts being manufactured in the factory and the people and resources processing and handling the parts. However, these models do not include equipment or process details, which can affect operational performance such as cycle time and inventory. Separate models are used to evaluate processes and equipment. Thus, it is difficult to evaluate the oper ...

11 Web-based and Java-based simulation: Distributed web-based component architectures: a model-based approach for component simulation development

Perakath Benjamin, Dursun Delen, Richard Mayer, Timothy O'Brien

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(377.27 KB) Additional Information: full citation, abstract, references

The increasing complexity of systems has enhanced the use of simulation as a decision-support tool. Often, simulation is the only scientific methodology available to practitioners for the analysis of complex systems. However, only a small fraction of the practical benefits of simulation modeling and analysis have reached the potentially large user community because of the relatively high requirement of time, effort, and cost needed to *build* and *successfully use* simulation models. I ...

12 Identifying important factors in deterministic investment problems using design of experiments

Willem J. H. Van Groenendaal, Jack P. C. Kleijnen

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(66.06 KB) Additional Information: full citation, references, citings, index terms

13 Efficient software testing protocols

Brett Stevens, Eric Mendelsohn

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(260.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Testing software against failure rapidly, efficiently and comprehensively is of vital importance to software programmers and designers. Complete testing is far too slow and costly. Randomized testing can suffer from deficiencies of the pseudo-random number generator used. Testing all pairwise input interactions is a relatively new idea that resolves this problem. It is extraordinarily efficient; the number of test cases only grows as the *log* of the number of inputs. Recent evidence shows ...

14 Five-stage procedure for the evaluation of simulation models through statistical techniques

Jack P. C. Kleijnen

November 1996 **Proceedings of the 28th conference on Winter simulation**

Full text available: pdf(705.37 KB) Additional Information: full citation, references, citings

15 Developing special purpose simulators under Microsoft Windows

Kieran L. Coughlan, Paul J. Nolan

December 1995 **Proceedings of the 27th conference on Winter simulation**

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16 Designing simulation experiments for evaluating manufacturing systems

James J. Swain, Phillip A. Farrington

December 1994 **Proceedings of the 26th conference on Winter simulation**

Full text available: pdf(828.11 KB) Additional Information: full citation, references, citings, index terms

17 Design of simulation experiments with manufacturing applications

Phillip A Farrington, James J. Swain

December 1993 **Proceedings of the 25th conference on Winter simulation**

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18 Expert simulation system based on a relational database
Robert E. Shannon, Martha A. Centeno
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Full text available: pdf(355.80 KB) Additional Information: full citation, references, citings, index terms

19 A logistics model of Coast Guard buoy tending operations
Leonard C. Kingsley, Kenneth S. Klesczewski, Joe A. Smith
December 1988 **Proceedings of the 20th conference on Winter simulation**
Full text available: pdf(894.81 KB) Additional Information: full citation, abstract, references, index terms

A discrete event simulation model has been constructed in SIMSCRIPT 11.5 for use in establishing buoy tender system requirements. Since each tender may have characteristics which limit its ability to travel in some waters, the model must plan the tender's travel itinerary. In addition, the model uses a set of tools that automatically generate meta-models for verification.

20 Building expert sytems for statistical process control in steel remelt industry
Mustafa A. Kamal
February 1988 **Proceedings of the 1988 ACM sixteenth annual conference on Computer science**
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21 Systems for Monte Carlo work
David Alan Grier
December 1987 **Proceedings of the 19th conference on Winter simulation**
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With the proliferation of computers has come a proliferation of simulation. Monte Carlo experiments can now be run by a vast range of programs from simple. Basic environments to spreadsheets: yet little attention has been paid to the problem of designing a system to do Monte Carlo problems. The ideas for a system described in this paper not only simplifies the problem of programming a Monte Carlo experiment but also attempts to maintain standards of experimental design and to encourage care ...

22 Simulation in material flow systems—trends and developments
Bernd Noche
March 1986 **Proceedings of the 19th annual symposium on Simulation**
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23 Concepts and criteria to assess acceptability of simulation studies: a frame of reference
Tuncer I. Ören
April 1981 **Communications of the ACM**, Volume 24 Issue 4
Full text available: pdf(893.47 KB) Additional Information: full citation, references, citings, index terms

Keywords: assessment of simulation studies, code verification, figure of merit, model calibration, model certification, model fitting, model robustness, model validation, program efficiency, program referability, software certification, software reliability, software robustness

24 A critical overview of computer performance evaluation
J. C. Browne
October 1976 **Proceedings of the 2nd international conference on Software engineering**

Full text available: pdf(974.50 KB) Additional Information: full citation, abstract, references, index terms

Effective computer performance evaluation requires: theories and models which effectively represent computer systems and computer processes, evaluation techniques which generate accurate assessments of system or program behavior from models and theories, technology for data gathering on executing systems or processes and technology for data analysis. This paper assesses the extent to which these requirements are currently met. A greater emphasis on combining empirical and theoretical work i ...

Keywords: Data base systems, Measurement, Modeling, Networks, Performance evaluation, Scheduling, Work and capacity

25 Circular integer partitioning

M. W. Coleman, M. S. Taylor
January 1971 **Communications of the ACM**, Volume 14 Issue 1

Full text available: pdf(88.11 KB) Additional Information: full citation, references

Keywords: combinatorics, partitions, statistical design of experiments

26 Complex gamma function

C. W. Lucas, C. W. Terrill
January 1971 **Communications of the ACM**, Volume 14 Issue 1

Full text available: pdf(176.86 KB) Additional Information: full citation, references, citings

Keywords: Stirling's asymptotic series, gamma function, poles of gamma function, recursion formula, reflection formula

27 The use of experimental design techniques in simulation

A. L. Frank
December 1968 **Proceedings of the second conference on Applications of simulations**

Full text available: pdf(135.52 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the use of statistical experimental design techniques in simulation modeling.

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